## Neutrino spin flip in system of magnetic barriers $G.\ Apostolovska\ et\ al.$ Faculty of Science, Skopje, Macedonia

If a neutrino has a non-vanishing magnetic moment it's helicity can be flipped when it passes through a region with a magnetic field which has a component perpendicular to the direction of motion of the neutrino.

We have explored the tunneling of a relativistic neutral spin 1/2 particle (Dirac neutrino) through a finite number of magnetic barriers (wells). Using transfer matrix tehnique we have calculated the transmission coefficients and polarization phase change as a function of the incident angle and energy of the particle. For massles relativistic particle reflections accurs only in the case of non-zero incident angle.